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Atty Docket No. 022193-131100US

PTO FAX NO.: (703) 872-9306

ATTENTION: Examiner Thang V TRAN

Group Art Unit 2653

**OFFICIAL COMMUNICATION  
FOR THE PERSONAL ATTENTION OF  
EXAMINER Thang V TRAN**

**CERTIFICATION OF FACSIMILE TRANSMISSION**

I hereby certify that the following documents in re Application of Koby FINKELSTEIN et al, Application No. 10/045,208, filed October 23, 2001 for METHODS AND APPARATUS FOR CROSS-TALK AND JITTER REDUCTION IN MULTI-BEAM OPTICAL DISKS are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Documents Attached

1. Transmittal Form (1 page)
2. Power of Attorney (1 page)
3. Statement Under 37 CFR 3.73(b) (1 page)
4. Copy of Assignment With Attached Schedule A (13 pages)

Number of pages being transmitted, including this page: 17

Dated: February 16, 2005

  
Katherine Parkas

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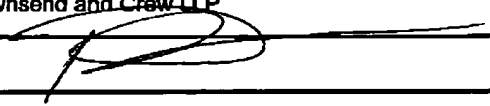
TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, Eighth Floor  
San Francisco, CA 94111-3834  
Telephone: 415-576-0200  
Fax: 415-576-0300

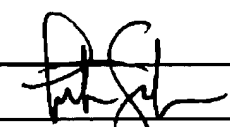
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PTO/SB/21 (09-04)

<b>TRANSMITTAL FORM</b>  <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/045,208	<b>RECEIVED CENTRAL FAX CENTER FEB 16 2005</b>
	Filing Date	10/23/2001	
	First Named Inventor	Koby FINKELSTEIN	
	Art Unit	2653	
	Examiner Name	Thang V TRAN	
Total Number of Pages in This Submission	17	Attorney Docket Number	022193-131100US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Statement Under 37 CFR 3.73(b) Copy of Assignment
<input type="checkbox"/> Remarks: The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Patrick R. Jewik		
Date	February 16, 2005	Reg. No.	40,456

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, Fax No. (703) 872-9306 on February 16, 2005.			
Signature			
Typed or printed name	Katherine Ferras	Date	February 16, 2005

60422018 v1

FEB 16 2005

PTO/SB/81 (11-04)

<b>POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM</b>	Application Number	10/045,208
	Filing Date	10/23/2001
	First Named Inventor	Koby FINKELSTEIN
	Title	Methods And Apparatus For Cross Talk And Jitter Reduction In Multi- Beam Optical Disks
	Art Unit	2653
	Examiner Name	Thang V TRAN
Attorney Docket Number		022193-131100US

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number: 20350

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

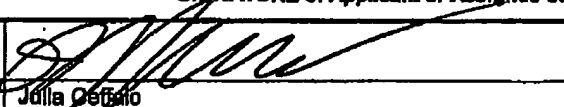
<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Fax		

I am the:

☐ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	14 FEB 2005
Name	Julia DeFazio	Telephone	
Title and Company	Authorized Person		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ \*Total of \_\_\_\_\_ forms are submitted.

80421359 v1

FEB 16 2005

PTO/SB/85 (08-03)

Attorney Docket No. 022193-131100US

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Dragsholm Wireless Holdings LLCApplication No./Patent No.: 10/045,208Filed/Issue Date: 10/23/2001Entitled: Methods And Apparatus For Cross Talk And Jitter Reduction In Multi-Beam Optical DisksDragsholm Wireless LLC, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_%

In the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Koby FINKELSTEIN et al. To: ZEN RESEARCH (IRELAND) LTD  
The document was recorded in the United States Patent and Trademark Office at Reel 013304, Frame 0337, or for which a copy thereof is attached.
2. From: ZEN RESEARCH (IRELAND) LTD To: BLACK VALLEY LIMITED  
The document was recorded in the United States Patent and Trademark Office at Reel 015653, Frame 0444, or for which a copy thereof is attached.
3. From: BLACK VALLEY LIMITED To: DRAGSHOLM WIRELESS HOLDINGS LLC  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

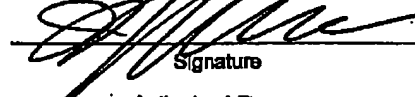
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

15 FEB 2005  
Date

Telephone number

Julia Ceffalo

Typed or printed name

  
Signature

Authorized Person

Title

60421902 v1

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Exhibit B

## ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Black Valley Limited having offices at 151 Templeogue Road, Terenure, Dublin 6W IRELAND, ("Assignor"), does hereby sell, assign, transfer and convey unto Dragashok Wireless Holdings LLC, a Nevada limited liability company, having an office at 2215-B Renaissance Drive, Suite 6, Las Vegas, NV 89119 ("Assignee") or its designees, all of Assignor's right, title and interest in and to the patent applications and patents listed on Schedule A attached hereto, any patents, registrations, or certificates of invention issuing on any patent applications listed on Schedule A, the inventions disclosed in any of the foregoing, any and all counterpart United States, International and foreign patents, applications and certificates of invention based upon or covering any portion of the foregoing, and all reissues, re-examinations, divisionals, renewals, extensions, provisionals, continuations and continuations-in-part of any of the foregoing (collectively "Patent Rights").

Assignor represents, warrants and covenants that: (i) it is the sole owner, assignee and holder of record title to the Patent Rights identified above, (ii) to the best of its knowledge it has obtained and properly recorded previously executed assignments for all patent applications and patents identified above as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction, and (iii) it has full power and authority to make the present assignment. Assignor shall indemnify and hold harmless Assignee for any breach of the foregoing.

Assignor further agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights: (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past and future infringement of the Patent Rights, and (ii) to apply in any or all countries of the world for patents, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding. Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor will, at the reasonable request of Assignee and without demanding any further consideration therefor, do all things necessary, proper, or advisable, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance shall include reasonable efforts to obtain and provide from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings,

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public use proceedings, infringement or other court actions and the like with respect to the Patent Rights.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Riverbank House  
on 4<sup>th</sup> Day of January 2005. Dublin 14.

## ASSIGNOR

Black Valley Limited

(I/K/a Zen Research (Ireland) Ltd.

By: [Signature]Name: DAVID HOLMESTitle: MANAGING DIRECTOR

(Signature MUST be notarized)

Signed by the said  
David Holmes in  
the presence of  
Me Ciaran R. Callan  
Solicitor and Commissioner  
for oaths at Riverbank  
House Dublin 14 and I  
know the said Signatory.  
David Holmes. Dated this  
4<sup>th</sup> Day of January  
Dublin 14.

[Signature]

CIARAN R. CALLAN,  
SOLICITOR / comm. for oaths.  
RIVER BANK HOUSE,  
DOODER PARK DRIVE,  
DUBLIN 14.  
TEL. 4900100 FAX: 4900292

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**PATENT STATUS REPORT FOR  
BLACK VALLEY LIMITED  
(f/k/a ZEN RESEARCH (IRELAND) LTD)**

**December 10, 2004**

## ZEN RESEARCH (IRELAND) LTD

December 10, 2004

Method and Apparatus for Reading Data						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
2185/US/92 DIV I	Edge detection algorithm for determining track centers in wide-area image	08/394,309	02/24/1995		5,598,393 (01/28/1997)	Maintenance Fee Due 1/28/05 + surcharge; 7/28/2008. Expires 01/28/2014.
2185/US/92 DIV II	TDI detector matrix-wide area	08/394,175	02/24/1995		5,574,712 (11/12/1996)	Maintenance Fee Due 05/12/2008. Expires 11/12/2013.

Method and Apparatus for the Simultaneous Writing of Data on an Optical Disk						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
2637/US/93	Parallel write using interference from independently modulated neighboring beams	08/254,187	06/06/1994		5,592,444 (01/07/1997)	Maintenance Fee Due 01/07/2005 + surcharge; 07/07/2008. Expires 01/07/2014.

Optical Disk Reader						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
2871/US/93	LED illumination with TDI matrix-wide area	08/315,432	09/30/1994		5,566,159 (10/15/1996)	Maintenance Fee Due 04/15/2008. Expires: 10/15/2013.

Focusing System and Methods for Multi-Track Optical Disk Apparatus					
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DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATES
ZRI-002	Astigmatic focus detection for wide-area illumination	08/531,764	09/20/1995		5,708,634 (01/13/1998)	Maintenance Fee due 07/13/2005; 07/13/2009. Expires: 09/20/2015.
ZRI-002 PCT (Designating all States)		PCT/EP96/04110	09/19/1996	WO 97/11460 (03/27/1997)		International phase complete; No National /Regional Applications
ZRI-002 DIV	Focus detection for wide-area illumination using two micro-lenses	08/842,936	04/25/1997		5,774,432 (06/30/1998)	Maintenance Fee due 12/20/2005; 12/30/2009; Expires 09/20/2015.

Track Detection Methods and Apparatus for Simultaneous Electronic Monitoring of Multiple Adjacent Tracks of an Optical Disk						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-003 PCT (Designating all States)		PCT/EP96/04947	11/13/1996	WO 97/18560 (05/22/1997)		International Phase Completed; No National/Regional Applications
ZRI-003 FWC	Tracking detection using CCD array having a low integration rate and a serial shifted output (wide area-method claims may support multi-beam)	08/921,459	08/15/1997		5,802,025 (09/01/1998)	Maintenance fee due 03/01/2006; 03/01/2010; Expires 11/15/2015.

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Methods and Apparatus for High Speed Optical Storage Device						
DOCKET	SUBJECT MATTER	SERIAL NO	FILING DATE	PUBLICATION NO & DATE	PATENT NO & DATE	STATUS
ZRI-004	Electronics for buffering data from multiple tracks in parallel and reassembling data in serial (wide area and multi-beam)	08/559,429	11/15/1995		5,627,805 (05/06/1997)	Maintenance Fee Due: 11/6/2008. Expires 11/15/2015.
ZRI-004 PCT		PCT/EP96/04970	11/13/1996	WO 97/18561 (05/22/1997)		International Phase Completed; No National/Regional Applications
ZRI-004 CIP 1	Digital PLL – uses pulse having unique pulse width (wide-area and multi-beam)	08/801,397	02/20/1997		5,793,549 (08/11/1998)	Maintenance Fee Due: 02/11/2006; 02/11/2010; Expires 11/15/2015.
ZRI-004 CIP DIV	Digital PLL – deriving individual track clocks from reference data clock (wide-area and multi-beam)	09/013,861	01/27/1998		6,028,827 (02/22/00)	Maintenance Fee Due: 08/22/07; 08/22/11 Expires 11/15/2015.
ZRI-004 CIP 2 PCT		PCT/EP98/00983	02/20/1998	WO98/37554 (08/27/98)		National/Regional Phase Entered:
Japan		10-536267	02/20/1998			Request for exam due 02/20/05.
ZRI-004 CIP 3	Moveable MUX – concurrent signal processing circuitry and	09/013,864	01/27/1998		6,381,210 (4/30/02)	Maintenance fees due 10/30/05; 10/30/09; 10/30/13; expires 2/20/17

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Methods and Apparatus for High Speed Optical Storage Device						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
	asynchronous signal processing circuitry (multi-beam)					

Methods and Apparatus for High Speed Optical Storage Device						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-004 CIP 3 PCT	Foreign counterpart to '864 application	PCT/EP98/00984	02/20/1998			Int'l Phase Completed; National/Regional Phase Entered
Japan		10-536268	02/20/1998			Request for exam 02/20/05

Electronic Track Detection Methods for Apparatus for Simultaneously Reading Multiple Adjacent Tracks of an Optical Disk						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-005	Tracking and reading data from multiple tracks by continuously solving simultaneous equations (wide-area)	08/558,805	11/15/1996		5,652,746 (07/29/1997)	Maintenance Fee Due: 1/29/2005, 1/29/2009; Expires 11/15/2015.
ZRI-005 PCT (Designating all States)		PCT/EP96/04971	11/13/1996	WO 97/18558 (05/22/1997)		International Phase Completed; No National /Regional Applications

Methods and Apparatus for Reducing the Access Time of an Optical Drive					
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DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-006	Improved seek-time using an elongated detector having multiple sensing elements to detect and count tracks (wide-area)	08/558,835	11/15/1995		5,793,715 (08/11/1998)	Maintenance Fee Due 02/11/2006; 02/11/2010; Expires 11/15/2015.
ZRI-006 PCT (Designating all States)		PCT/EP96/04972	11/13/1996	WO 97/18557 (05/22/1997)		International Phase Completed; No National/Regional Applications

Method and Apparatus for High Speed Optical Storage Device						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-007	Signals from detector array used for tracking and crosstalk correction; between-track mulling (wide area)	08/559,419	11/15/1995		5,701,283 (12/23/1997)	Maintenance Fee due 06/23/2005; 06/23/2009. Expires: 11/15/2015.
ZRI-007 PCT (Designating all States)		PCT/EP96/04973	11/13/2096	WO 97/18559 (05/22/2097)		International Phase Completed; No National /Regional Applications

Methods and Apparatus for Correcting Magnification Errors While Tracking Multiple Adjacent Tracks of an Optical Disk						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS

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Method and Apparatus for High Speed Optical Storage Device						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-008	Magnification correction for multi-beam read (multi-beam)	08/675,526	07/3/1996		5,729,512 (03/17/1998)	Maintenance Fees due 09/17/05; 09/17/09; Expires 07/03/16.
ZRI-008 PCT (designating all states)		PCT/EP97/03497	07/03/1997			Int'l Phase Completed; No National/Regional Applications
ZRI-008 CIP CPA	Magnification correction for multi-beam reading or writing (multi-beam)	09/037,471	03/10/1998		6,430,125 (8/6/02)	Maintenance Fees due 02/06/06; 02/06/10; 02/06/14; Expires 07/03/16
ZRI-008 CIP2	Magnification correction plus single-sided crosstalk correction (multi-beam)	09/042,185	03/12/1998		5,959,953 (09/28/99)	Maintenance Fees due 03/28/07; 03/28/11; Expires: 07/03/16.
ZRI-008 CIP PCT	Foreign counterpart to '471 application	PCT/EP99/01522	03/09/99	WO 99/46769 (09/16/99)		Int'l phase completed; National phase entered.

Illuminating Multiple Data Tracks of an Optical Disk with a Laser Source or Reduced Caperture						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-009	Non-coherent wide-area illumination	08/676,554	07/08/1996		5,825,743 (10/20/1998)	Maintenance Fee due 04/20/2006; 04/20/2010; expires 2/24/15
ZRI-009 PCT (Designating all		PCT/EP97/03606	07/08/1997			International Phase Complete; No National/Regional

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Illuminating Multiple Data Tracks of an Optical Disk with a Laser Source or Reduced Coherence					
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE
States)					Applications

Improved Optics for Optical Disk Reader (Pending Patent)					
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE
ZRI-019	Multibeam optical pickup that combines diffractive and holographic elements (multi-beam)	09/027,313	02/20/1998	20020057632-A1	6,411,573 (06/25/02)
					Maintenance fees due 12/25/05; 12/25/09; 12/25/13; expires 02/20/18. No foreign filing

DVD Disk Reader					
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE

Multi-Beam Read Single Beam Write					
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE
ZRI-022	Multi-beam read/at least single-beam write	09/026,736	02/20/1998		6,314,071 (11/06/01)
					Maintenance Fee due 5/6/05; 5/6/09; 5/6/13; Expires 2/20/18.
ZRI-022 PCT	Foreign counterpart to '736 application	PCT/EP99/01074	02/19/1999	WO 99/42993 (08/26/99)	Int'l Phase Completed; national phase entered.
ZRI-022 Japan		2000-532848	02/19/99	2002-504734 (2/12/02)	Request for Exam 02/19/06

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Optical Disk Reproducing Method						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-023 PCT	Foreign counterpart to '803 application	PCT/JP98/04268	09/22/1998			Int'l Phase Completed; National Phase entered in US
ZRI-023 US	Foreign counterpart to '803 application	09/529,500	04/13/2000		6,373,793 (4/16/02)	Maintenance fees due 10/16/05; 10/16/09; 10/16/13; expires 4/13/20
Method and Apparatus for Generating Focus Error Signals in a Multi-Beam Optical Disk Drive						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-025	Focus error detection using holographic element with astigmatism (multi-beam)	09/169,212	10/09/1998		6,229,771 (5/8/01)	Maintenance fees due 11/8/08; 11/8/12; expires 10/9/18
ZRI-025 PCT		PCT/EP99/07561	10/08/99	WO 00/22617 (04/20/2000)		International Phase completed; National Phase entered
ZRI-025 Australia		62017/99	10/08/99		755639 (4/3/03)	6 <sup>th</sup> annuity due 10/08/05; expires 10/8/19
ZRI-025 Japan		2000-576449	10/08/99	2002-527853 (8/27/02)		Request for Examination due 10/08/06

Method and Apparatus for Buffering Data in a Multi-Beam Optical Disk Reader

## ZEN RESEARCH (IRELAND) LTD

December 10, 2004

DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-027	Buffering and re-ordering data blocks for sequential delivery to host computer (multi-beam)	09/159,998	09/24/1998		6,137,763 (10/24/00)	Maintenance Fee Due 4/24/08; 4/24/12; exp. 9/24/18.
ZRI-027 PCT		PCT/EP99/06971	09/21/99		WO 00/17873 (03/30/00)	International Phase completed; National Phase entered.

Method and Apparatus for Reading Multiple Tracks of an Optical Disk Using a Swing-Arm Mechanism						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-029	Using a swing-arm positioning mechanism in a multi-beam optical disk reader	09/373,683	08/13/99		6,449,225 (9/10/02)	Maintenance Fees due 3/10/06; 3/10/10; 3/10/14; expires 8/13/19
ZRI-029 PCT		PCT/EP00/07703	08/08/00		WO 01/13367 (2/22/01)	International Phase Completed; National Phase Entered
ZRI-029 Japan		2001-517382	08/08/00	2003-507831 (2/25/03)		Request for exam due 8/8/07

Multibeam Optical Pickup For Use With DVD-ROM/READ and CD-ROM/RAM Formats						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-030 PCT		PCT/EP00/12826	12/15/00			Int'l Phase Completed; No National/Regional Applications



**ZEN RESEARCH (IRELAND) LTD**  
December 10, 2004

Method and Apparatus for Writing Multiple Tracks of an Optical Disk						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-031 provisional	optical disk drive for writing multiple tracks of an optical disk.	60/260,458	01/08/01			Expired
ZRI-031 US		10/042,653	01/08/02	20030012113-A1 (1/16/03)		Response to 1 <sup>st</sup> Office Action due 11/17/04 (deadline can be extended up to three more months until 2/17/05 with payment of extension fee for each month).
ZRI-031 PCT		PCT/IB02/01662	01/08/02	WO 02/065461 (8/22/02)		International Phase completed; No National/Regional Applications

Methods and Apparatus for Cross-talk and Jitter Reduction in Multi-beam Optical Disks						
DOCKET	SUBJECT MATTER	SERIAL NO.	FILING DATE	PUBLICATION NO. & DATE	PATENT NO. & DATE	STATUS
ZRI-032 US	multi-beam optical disks for reducing cross-talk and jitter	10/045,208	10/23/01	20030076760-A1 (4/24/03)		Response to 1 <sup>st</sup> Office Action due 1/5/05 (deadline can be extended up to three more months until 4/5/05 with payment of extension fee for each month). No Foreign filing

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